Homework 3 Internet security

1. Two writers are sharing draft sections of a book they are collaborating on together electronically. They are concerned other people may intercept these communications and leak the material.

   Explain why encryption might be appropriate. [2]

2. Network security can be enhanced by the use of a firewall and a proxy server.

   a. Define what is meant by a firewall. [1]

   b. Explain how content filtering within a proxy server can provide network security. [2]

3. Malicious software introduced to a network can cause damage to operating systems and data loss.

   a. Explain the differences between a Trojan, a virus and a worm. [2]

   b. Describe **three** precautions that users can take to minimise the risk of introducing malicious software onto a single computer. [3]

[Total 10 Marks]